# **Ultra Trace Laboratory Perth**

## Analytical Procedure

The samples have been analysed by Firing a 40 gm (approx) portion of the sample. Lower sample weights may be employed for samples with very high sulphide and metal contents. This is the classical fire assay process and will give total separation of Gold, Platinum and Palladium in the sample.

### Au1, Pt, Pd

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry. The samples have been fused with Sodium Peroxide and subsequently the melt has been dissolved in dilute Hydrochloric acid for analysis. Because of the high furnace temperatures, volatile elements are lost. This procedure is particularly efficient for determination of Major element composition (Including Silica) in the samples or for the determination of refactory mineral species.

#### Ag, As, Pb, Mo, Bi

have been determined by Inductively Coupled Plasma (ICP) Mass Spectrometry.

#### Cu, Zn

have been determined by Inductively Coupled Plasma (ICP) Optical Emission Spectrometry.

#### Detection Limits

### Analytes

Au1 1 ppb Рt 5 ppb 5 ppb 5 ppb Αq As 10 ppm Cu 50 ppm Pb 10 ppm Zn 50 ppm Мо 5 ppm Βi 1 ppm